

Listing of Claims:

Claims 1-16 (Canceled).

17. (Currently Amended) A microscope electronic camera for a microscope having a function of changing a setting of an observation condition of a specimen, said microscope electronic camera comprising:

5       an imaging element which obtains an observation image of the specimen;

recognizing means for, when the setting of the observation condition in the microscope is changed, recognizing changed setting information, and also for recognizing magnification/specimen change information relating to at least one of a change 10 of observation magnification and a change of the specimen;

15       color signal processing means for processing ~~an a~~ color image signal output from the imaging element in accordance with the changed setting information recognized by the recognizing means; and

filter coefficient changing means, connected to the color signal processing means, for changing a filter coefficient, which determines a degree of contour accentuation suitable for observation with respect to the color image signal, in accordance 20 with the magnification/specimen change information recognized by the recognizing means.

Claims 18 and 19 (Canceled).

20. (Currently Amended) A microscope electronic camera for a microscope having a function of changing a setting of an observation condition of a specimen, said microscope electronic camera comprising:

5       an imaging element which obtains an observation image of the specimen;

a microscope control section configured to, when the setting of the observation condition in the microscope is changed, recognize changed setting information, and also configured to 10 recognize magnification/specimen change information relating to at least one of a change of observation magnification and a change of the specimen;

15       an a color image control section configured to process an a color image signal output from the imaging element in accordance with the changed setting information recognized by the microscope control section; and

20       a filter circuit which is connected to the color image control section and which changes a filter coefficient, which determines a degree of contour accentuation suitable for observation with respect to the color image signal, in accordance with the magnification/specimen change information recognized by the microscope control section.

Claim 21 (Canceled).